

# Web Content Management Systems - Challenge

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# Outline

1 Mediawiki

2 Drupal

3 Bugzilla

# Mediawiki



# Install mediawiki package

- Download and installation of the mediawiki package

## Install mediawiki package

```
apt-get install mediawiki
```

# Modification of apache configuration files

- /etc/apache2/sites-available/default

```
<VirtualHost *:80>
    ServerAdmin benjamin.drexler@googlemail.com
    ServerName benjamin
    ServerAlias benjamin.tbl

    DocumentRoot /var/www
    Include /etc/mediawiki/apache.conf
```

- /etc/mediawiki/apache.conf

```
# Uncomment this to add an alias.
# This does not work properly with virtual hosts..
Alias /mediawiki /var/lib/mediawiki

<Directory /var/lib/mediawiki/>
    Options +FollowSymLinks
    AllowOverride All
    order allow,deny
    allow from all
</Directory>
```

- Restart of apache server: `invoke-rc.d apache2 restart`

# Mediawiki start page



# Site config

## Site config

---

**Wiki name:**

**Must not be blank or**

**"MediaWiki" and may not contain "#"**

Preferably a short word without punctuation, i.e. "Wikipedia".  
 Will appear as the namespace name for "meta" pages, and throughout the interface.

**Contact e-mail:**

Displayed to users in some error messages, used as the return address for password reminders, and used as the default sender address of e-mail notifications.

**Language:**

Select the language for your wiki's interface. Some localizations aren't fully complete. Unicode (UTF-8) is used for all localizations.

**Copyright/license:** ☒ No license metadata

# Successful installation

- Database type: MySQL
- Loading class: DatabaseMysql
- Attempting to connect to database server as root...success.
- Connected to mysql 5.1.61-0+squeezel; enabling MySQL 4.1/5.0 charset mode
- Attempting to create database...
- Created database wikidb
- Creating tables... done.
- Initializing statistics...
- Granting user permissions to wikiuser on wikidb...success.
- Created sysop account root.
- Creating LocalSettings.php...

---

**Installation successful!** Move

`/var/lib/mediawiki/config/LocalSettings.php` to `/etc/mediawiki`, then follow [this link](#) to your wiki.

You should change file permissions for `LocalSettings.php` as required to prevent other users on the server reading passwords and altering configuration data.

# LocalSettings.php

- Modification of the user rights:

```
chmod 700 LocalSettings.php
```

- Only registered users are able to edit pages

```
# Set the right to edit pages only to registered users
$wgGroupPermissions['*']['edit']          = false;
$wgGroupPermissions['users']['edit']      = true;
```

- Change to custom logo

```
$wgLogo = '/home/benjamin/cms_challenge/logo.png';
```

# Mediawiki main page



**Biolab 2012**

[page](#) [discussion](#) [view source](#) [history](#)

 [Log in / create account](#)

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## Main Page

This is my modified main page to make it a little more personal.

navigation

- [Main page](#)
- [Community portal](#)
- [Current events](#)
- [Recent changes](#)
- [Random page](#)
- [Help](#)

# Enable LDAP authentication

- Download and enable the LDAP authentication module

## LDAP authentication

```
apt-get install mediawiki-extensions-ldapauth
mwenext LdapAuthentication.php
```

- Added the following lines in LocalSettings.php

```
# Enable LDAP authentication
#require_once("/etc/mediawiki-extensions/extension-available/LdapAuthentication.
php");
$wgAuth = new LdapAuthenticationPlugin();
$wgLDAPDomainNames = array("LDAPdomain");
$wgLDAPServerNames = array("LDAPdomain" => "localhost");
$wgLDAPSearchStrings = array("LDAPdomain" => "uid=USER-NAME,ou=people,dc=tbl");
```

# Drupal



# Prepare MySQL database

## MySQL commands

```
CREATE DATABASE DrupalDB;  
CREATE USER 'drupaluser'@'localhost' IDENTIFIED BY  
'secretpw';  
GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP,  
INDEX, ALTER ON DrupalDB.* TO drupaluser@localhost;
```

# Download Drupal

- Download Drupal

```
wget
http://ftp.drupal.org/files/projects/drupal-7.8.tar.gz
tar xzf drupal-7.8.tar.gz
mv drupal-7.8/ /var/www/drupal
```

- Change owner and permissions


```
chown -R www-data:www-data /var/www/drupal/
chmod -R 650 /var/www/drupal/sites/default
cd /var/www/drupal/sites/default
cp ./default.settings.php settings.php
chmod 650 settings.php
```

# Configuration of Drupal (1)

Back

<http://benjamin.tbl/drupal/install.php>

Select an installation profile



☒ **Standard**  
 Install with commonly used features pre-configured.

☐ **Minimal**  
 Start with only a few modules enabled.

Save and continue

**► Choose profile**

Choose language  
 Verify requirements  
 Set up database  
 Install profile  
 Configure site  
 Finished

# Configuration of Drupal (2)

- ✓ Choose profile
- ✓ Choose language
- ▶ **Verify requirements**

Set up database  
Install profile  
Configure site  
Finished

Database support	Enabled
PHP memory limit	128M
✗ File system	The directory <code>sites/default/files</code> does not exist. An automated attempt to create this directory failed, possibly due to a permissions problem. To proceed with the installation, either create the directory and modify its permissions manually or ensure that the installer has the permissions to create it automatically. For more information, see <code>INSTALL.txt</code> or the <a href="#">online handbook</a> .
Unicode library	PHP Mbstring Extension
✗ Default settings file	The default settings file does not exist. The Drupal installer requires that the <code>./sites/default/default.settings.php</code> file not be modified in any way from the original download.
✗ Settings file	The settings file does not exist. The Drupal installer requires that you create a settings file as part of the installation process. Copy the <code>./sites/default/default.settings.php</code> file to <code>./sites/default/settings.php</code> . More details about installing Drupal are available in <code>INSTALL.txt</code> .

Check the error messages and [proceed with the installation](#).

## • Change permissions

```
chmod 777 sites/default
chmod 777 sites/default/settings.php
chmod 777 sites/default/files
```

# Configuration of Drupal (3)

## Configure site



- ✓ Choose profile
- ✓ Choose language
- ✓ Verify requirements
- ✓ Set up database
- ✓ Install profile
- ▶ **Configure site**

Finished



All necessary changes to `sites/default` and `sites/default/settings.php` have been made, so you should remove write permissions to them now in order to avoid security risks. If you are unsure how to do so, consult the [online handbook](#).

### SITE INFORMATION

**Site name \***

**Site e-mail address \***

Automated e-mails, such as registration information, will be sent from this address. Use an address ending in your site's domain to help prevent these e-mails from being flagged as spam.

### SITE MAINTENANCE ACCOUNT

# Configuration of Drupal (4)

## Drupal installation complete



Congratulations, you installed Drupal!

[Visit your new site.](#)

- ✓ Choose profile
- ✓ Choose language
- ✓ Verify requirements
- ✓ Set up database
- ✓ Install profile
- ✓ Configure site
- ✓ Finished



# Enable LDAP authentication (1)

- Download the LDAP module

```
tar -xzf ldap-7.x-1.0-beta11.tar.gz  
mv ldap/ /var/www/drupal/modules  
chown -R www-data:www-data ldap/
```

# Enable LDAP authentication (2)

## ● Built-in installation form of modules

[Home](#) » [Administration](#) » [Modules](#)

You can find [modules](#) and [themes](#) on [drupal.org](#). The following file extensions are supported: *zip tar tgz gz bz2*.

### Install from a URL

For example: <http://ftp.drupal.org/files/projects/name.tar.gz>

Or

### Upload a module or theme archive to install

 (None)

For example: *name.tar.gz* from your local computer

# Enable LDAP authentication (3)

- Enable LDAP authentication modules

## ▼ LIGHTWEIGHT DIRECTORY ACCESS PROTOCOL

ENABLED	NAME	VERSION	DESCRIPTION	OPERATIONS
<input checked="" type="checkbox"/>	<b>LDAP Authentication</b>	7.x-1.0-beta11	Implements LDAP authentication Requires: LDAP Servers ( <b>disabled</b> ) Required by: LDAP SSO ( <b>disabled</b> )	
<input checked="" type="checkbox"/>	<b>LDAP Authorization</b>	7.x-1.0-beta11	Implements LDAP authorization (previously LDAP Groups) Requires: LDAP Servers ( <b>disabled</b> ) Required by: LDAP Authorization - Drupal Roles ( <b>disabled</b> ), LDAP Authorization - OG (Organic Groups) ( <b>disabled</b> )	

# Enable LDAP authentication (4)

- Add LDAP server configuration

LDAP Server Type: Open LDAP

LDAP Server: ldap://localhost

LDAP port: 389

Binding Method: Service Account Bind

DN for non-anonymous search:

uid=benjamin,ou=people,dc=tbl

Base DN: ou=people,dc=tbl

AuthName attribute: uid

# Enable LDAP authentication (5)

## • Successful test of LDAP server configuration

[Home](#) » [Administration](#) » [Configuration](#) » [People](#) » [LDAP Configuration](#) » [2. Servers](#)




### Result Messages

- Binding with DN for non-anonymous search (*uid=benjamin,ou=people,dc=tbl*). Using password entered in form.
- Binding with DN for non-anonymous search (*uid=benjamin,ou=people,dc=tbl*). Using password entered in form.
- Successfully bound to server
- Found test user *benjamin* by searching on *uid = benjamin*.

# Enable LDAP authentication (6)

## ● Failed to login

Home



- Another user already exists in the system with the same email address. You should contact the system administrator in order to create this user.
- Sorry, unrecognized username or password. [Have you forgotten your password?](#)

User login

Username \*

benjamin

Password \*

Welcome to benjamin.tbl

No front page content has been created yet.

# Bugzilla



# Download Bugzilla

- Download Bugzilla

```
tar xzf bugzilla-4.0.tar.gz
```

```
chown -R www-data:www-data bugzilla
```

# Install Bugzilla (1)

- Check for missing perl modules

`./checksetup.pl -check-modules`

```
root@benjamin:/home/benjamin/cms_challenge/bugzilla# ./checksetup.pl --check-modules
* This is Bugzilla 4.0 on perl 5.10.1
* Running on Linux 2.6.32-5-amd64 #1 SMP Thu Mar 22 17:26:33 UTC 2012

Checking perl modules...
Checking for      CGI.pm (v3.51)          ok: found v3.52
Checking for      Digest-SHA (any)        ok: found v5.47
Checking for      TimeDate (v2.21)        ok: found v2.24
Checking for      DateTime (v0.28)        ok: found v0.61
Checking for      DateTime-TimeZone (v0.71) ok: found v1.20
Checking for      DBI (v1.41)             ok: found v1.612
Checking for      Template-Toolkit (v2.22) ok: found v2.22
Checking for      Email-Send (v2.00)       ok: found v2.198
Checking for      Email-MIME (v1.904)     found v1.903
Checking for      URI (any)               ok: found v1.54
Checking for      List-MoreUtils (v0.22)  ok: found v0.25_02

Checking available perl DBD modules...
Checking for      DBD-Pg (v1.45)          not found
Checking for      DBD-mysql (v4.00)       ok: found v4.016
Checking for      DBD-Oracle (v1.19)     not found
```

# Install Bugzilla (2)

- Install missing perl modules

```
perl install-module.pl Email::MIME
```

- Softlink in the apache document root

```
ln -s /home/benjamin/cms_challenge/bugzilla  
/var/www/bugzilla
```

- Enter the database information in localconfig

```
$webservergroup = 'www-data';  
$db_driver = 'mysql';  
$db_host = 'localhost';  
$db_name = 'bugzilla';  
$db_user = 'bugzilla';  
$db_pass = 'secretpw';
```

## Install Bugzilla (3)

- Create the bugzilla database and user

```
CREATE USER 'bugzilla'@'localhost' IDENTIFIED  
BY 'secretpw';  
CREATE DATABASE 'bugzilla' ;  
GRANT ALL PRIVILEGES ON 'bugzilla' . * TO  
'bugzilla'@'localhost';
```

# Install Bugzilla (4)

- Final check of the setup

```
Creating group bz_canusewhines...
Creating group bz_sudoers...
Creating group bz_sudo_protect...
Adding a new user setting called 'skin'
Adding a new user setting called 'quote_replies'
Adding a new user setting called 'comment_box_position'
Adding a new user setting called 'lang'
Adding a new user setting called 'timezone'
Adding a new user setting called 'post_bug_submit_action'
Adding a new user setting called 'per_bug_queries'
Adding a new user setting called 'zoom_textareas'
Adding a new user setting called 'csv_colsepchar'
Adding a new user setting called 'state_addselfcc'
Adding a new user setting called 'comment_sort_order'
Adding a new user setting called 'display_quips'
```

Looks like we don't have an administrator set up yet. Either this is your first time using Bugzilla, or your administrator's privileges might have accidentally been deleted.

```
Enter the e-mail address of the administrator: benjamin.drexler@googlemail.com
Enter the real name of the administrator: Benjamin
Enter a password for the administrator account:
Please retype the password to verify:
```

# Enable LDAP authentication (1)

## user\_verify\_class

Mechanism(s) to be used for verifying (authenticating) information gathered by user\_info\_class. More than one may be selected. If the first one cannot find the user, the second is tried, and so on. The types are:

### DB

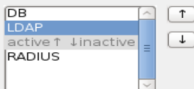
Bugzilla's built-in authentication. This is the most common choice.

### RADIUS

RADIUS authentication using a RADIUS server. Please see the Bugzilla documentation for more information. Using this method requires [additional parameters](#) to be set.

### LDAP

LDAP authentication using an LDAP server. Please see the Bugzilla documentation for more information. Using this method requires [additional parameters](#) to be set.



A screenshot of a web form for selecting authentication mechanisms. It features a list box with the following items: 'DB', 'LDAP' (which is highlighted in blue), 'active' (with an up arrow and a down arrow), 'inactive' (with a plus icon), and 'RADIUS'. To the right of the list box are two buttons: an up arrow and a down arrow.

- Install additional perl module

```
perl install-module.pl Net::LDAP
```

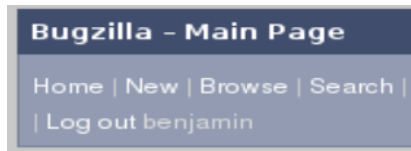
# Enable LDAP authentication (2)

- Setting of the LDAP parameters

LDAPserver: ldap://localhost:389

LDAPbinddn: ou=people,dc=tbl

LDAPuidattribute: uid



# References

Thanks for your attention! Any Questions?

## References

- Mediawiki documentation  
(<http://www.mediawiki.org/wiki/Installation>)
- Bugzilla documentation (<http://www.bugzilla.org/docs/>)
- Drupal documentation (<http://drupal.org/documentation>)
- [http://wiki.gonzofamily.com/a/Bugzilla\\_on\\_Debian](http://wiki.gonzofamily.com/a/Bugzilla_on_Debian)
- <http://www.root-on-fire.com/2011/10/26/howto-drupal-7-unter-debian-ubuntu-installieren/>